| 1 | 2, | 3 |
|----|--|---------------|
| 3 | National Programme on Improved chulhas | 150 Lakhs |
| 4 | National Biomass Gasifier Programme | 40 MW |
| 5 | Solar Photovoltaic (SPV) Demonstration Programme | |
| | SPV Home Light | 2 Lakhs |
| | SPV Lanterns | 3 Lakhs |
| | SPV Power Plants | 1.6 MW |
| 6 | SPV Pumps | 4000 Nos. |
| 7 | Solar Thermal (ST) Energy | |
| | Solar Water Heating Systems (M.sq. collector area) | 1.5 Lakhs |
| | Solar Cooker | 1.5 Lakh Nos. |
| 8 | Wind Pumps & Hybrid Systems | 1000 Nos. |
| | | 250 kW |
| 9 | Wind Power | 1000 MW |
| 10 | Small Hydro Power | 130 MW |
| 11 | Biomass Power | 314 MW |
| 12 | Solar Power | 141.5 MW |
| 13 | Energy from Urban & Industrial wastes | 42 MW |
| | | |

MW = Mega Watt; kW Kilo Watt; M.sq. - Metre Square

Electrification of villages through Renewable Energy Sources in Andhra Pradesh

1131. SHRI RAMA MUNI REDDY SIRIGIREDDY: Will the Minister of NON-CONVENTIONAL ENERGY SOURCES be pleased to state:

- (a) the target set for the next five years to generate power through Renewable Energy Sources;
 - (b) the strategy that Government is going to adopt to achieve the target; and
- (c) the total number of villages that are going to be electrified in the coming five years in the State of Andhra Pradesh through Renewable Energy Sources?

THE MINISTER OF STATE OF THE MINISTRY OF NON-CONVENTIONAL ENERGY SOURCES (SHRI M. KANNAPPAN): (a) and (b) The strategy and targets for the 10th Five Year Plan are under formulation and have not yet been finalized.

(c) The Ministry of Non-Conventional Energy Sources proposes to implement a programme for the electrification of villages in remote and difficult areas in the country during the next 10-11 years. The State-wise targets have not yet been worked out.

Setting up of first Geo-thermal Power Plant in the Country

- 1132. SHRI K. RAMA MOHANA RAO: Will the Minister of NON-CONVENTIONAL ENERGY SOURCES be pleased to state:
- (a) the various types of Non-conventional Energy Sources available in the country;
- (b) whether Government propose to set up its first geo-thermal power plant in the country;
 - (c) if so, the details thereof;
 - (d) whether any study has been carried out in this regard; and
 - (e) if so, the details of study and the viability of the said project?
- THE MINISTER OF STATE OF THE MINISTRY OF NON-CONVENTIONAL ENERGY SOURCES (SHRI M. KANNAPPAN): (a) The main non-conventional energy resources include solar, wind, biomass, small hydro power, gco-thermal and ocean and the Ministry have 'been implementing various programmes and schemes based on these resources.
- (b) and (c) Yes, Sir. The Ministry have taken up a project on the development of Tattapani geo-thermal fields, Chhattisgarh for power generation. Under the initial phase of this project, a pilot demonstration geo-thermal power plant of 300 kW capacity at an estimated cost of Rs. 4.60 crore will be installed at this site through National Hydro-electric Power Corporation.
- (d) and (e) A study sponsored by the Ministry was carried out by National Geophysical Research Institute, Hyderabad at the above mentioned site to ascertain various parameters for installing a geo-thermal power plant of suitable capacity. Based on the recommendations of this study, the above pilot demonstration